Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (original) An isolated polypeptide having disintegrin activity and comprising amino acids 389 through 491 of SEQ ID NO:12.
- 2. (currently amended) The isolated polypeptide of claim 1 wherein the polypeptide comprises an amino acid sequence selected from the group-consisting of SEQ ID NO:12, SEQ ID NO:13, and SEQ ID NO:14.
- 3. (currently amended) The isolated polypeptide of claim 1 further comprising an amino acid sequence selected from the group consisting of amino acids 1 through 15 of SEQ ID NO:12, amino acids 16 through 188 of SEQ ID NO:12, amino acids 189 through 388 of SEQ ID NO:12, amino acids 492 through 675 of SEQ ID NO:12, amino acids 676 through 698 of SEQ ID NO:12, and amino acids 699 through 766 of SEQ ID NO:12, amino acids 699 through 787 of SEQ ID NO:13, and amino acids 699 through 820 of SEQ ID NO:14.
- 4. (original) The isolated polypeptide of claim 1 further comprising the amino acid sequence of a polypeptide selected from the group consisting of a poly-His peptide, a FLAG peptide, a peptide linker, a leucine zipper domain, and an Fc polypeptide.
- 5. (original) The isolated polypeptide of claim 1 in non-glycosylated form.
- 6. (currently amended) An isolated polypeptide having disintegrin activity encoded by a nucleic acid molecule selected from the group consisting of:
 - (a) an isolated nucleic acid molecule comprising a DNA sequence selected from the group consisting of SEQ ID NO:7, SEQ ID NO:8, and SEQ ID NO:9;
 - (b) an isolated nucleic acid molecule encoding an amino acid sequence comprising the sequence selected from the group consisting of amino acids 389 through 491 of SEQ ID NO:12, SEQ ID NO:13, and SEQ ID NO:14;
 - (c) an isolated nucleic acid molecule that encodes a polypeptide having disintegrin activity and that hybridizes to either strand of a denatured, double-stranded DNA

comprising a nucleic acid sequence of (a) under hybridization conditions of 50% formamide and 6XSSC, at 42°C with washing conditions of 68°C, 0.2X SSC, 0.1% SDS; and

- (d) an isolated nucleic acid molecule degenerate from SEQ ID NO:7, SEQ ID NO:8, and SEQ ID NO:9 as a result of the genetic code.
- 7. (currently amended) The isolated polypeptide of claim 6 having a molecular weight selected from the group consisting of approximately 86,983; 89,459; and 92,781 Daltons as determined by SDS-PAGE.
- 8. (original) The isolated polypeptide of claim 6 in non-glycosylated form.
- 9. (original) The isolated polypeptide of claim 6, wherein the polypeptide comprises amino acids 389 through 491 of SEQ ID NO:12.
- 10. (currently amended) The isolated polypeptide of claim 9 further comprising an amino acid sequence selected from the group consisting of amino acids 1 through 15 of SEQ ID NO:12, amino acids 16 through 188 of SEQ ID NO:12, amino acids 189 through 388 of SEQ ID NO:12, amino acids 492 through 675 of SEQ ID NO:12, amino acids 676 through 698 of SEQ ID NO:12, and amino acids 699 through 766 of SEQ ID NO:12, amino acids 699 through 787 of SEQ ID NO:13, and amino acids 699 through 820 of SEQ ID NO:14.
- 11. (original) The isolated polypeptide of claim 6, wherein the polypeptide comprises SEQ ID NO:12.
- 12. (withdrawn) The polypeptide of claim 6, wherein the polypeptide comprises SEQ ID NO:13.
- 13. (withdrawn) The polypeptide of claim 6, wherein the polypeptide comprises SEQ ID NO:14.

- 14. (original) The isolated polypeptide of claim 6 further comprising the amino acid sequence of a polypeptide selected from the group consisting of a poly-His peptide, a FLAG peptide, a peptide linker, a leucine zipper domain, and an Fc polypeptide.
- 15. (currently amended) A polypeptide having disintegrin activity and encoded by a recombinant nucleic acid, wherein the polypeptide is expressed by a method comprising culturing a host cell comprising said recombinant nucleic acid under conditions promoting expression of the polypeptide, and wherein said recombinant nucleic acid comprises a nucleotide sequence encoding the polypeptide and selected from the group consisting of:
 - (a) SEQ ID NO:7, SEQ ID NO:8, and SEQ ID NO:9;
 - (b) a nucleotide sequence encoding an amino acid sequence comprising a sequence selected from the group consisting of amino acids 389 through 491 of SEQ ID NO:12, SEQ ID NO:13, and SEQ ID NO:14;
 - (c) a nucleotide sequence that encodes a polypeptide having disintegrin activity and that hybridizes to either strand of a denatured, double-stranded DNA comprising a nucleotide sequence of (a) under hybridization conditions of 50% formamide and 6XSSC, at 42°C with washing conditions of 68°C, 0.2X SSC, 0.1% SDS; and
 - (d) a nucleotide sequence degenerate from SEQ ID NO:7, SEQ ID NO:8, and SEQ ID NO:9 as a result of the genetic code.
- 16. (original) The polypeptide of claim 15, wherein the polypeptide is expressed by a method further comprising purifying the expressed polypeptide.
- 17. (original) The polypeptide of claim 15, wherein the polypeptide is expressed by a method comprising culturing a host cell selected from the group consisting of bacterial cells, yeast cells, plant cells, and animal cells.
- 18. (original) The polypeptide of claim 15, wherein the polypeptide is expressed by a method comprising culturing a mammalian host cell.

- 19. (currently amended) The polypeptide of claim 15 having a molecular weight selected from the group-consisting of approximately 86,983; 89,459; and 92,781 Daltons as determined by SDS-PAGE.
- 20. (original) The polypeptide of claim 15 in non-glycosylated form.
- 21. (original) The polypeptide of claim 15, wherein the polypeptide comprises amino acids 389 through 491 of SEQ ID NO:12.
- 22. (currently amended) The polypeptide of claim 21 further comprising an amino acid sequence selected from the group consisting of amino acids 1 through 15 of SEQ ID NO:12, amino acids 16 through 188 of SEQ ID NO:12, amino acids 189 through 388 of SEQ ID NO:12, amino acids 492 through 675 of SEQ ID NO:12, amino acids 676 through 698 of SEQ ID NO:12, and amino acids 699 through 766 of SEQ ID NO:12, amino acids 699 through 787 of SEQ ID NO:13, and amino acids 699 through 820 of SEQ ID NO:14.
- 23. (original) The polypeptide of claim 15, wherein the polypeptide comprises SEQ ID NO:12.
- 24. (withdrawn) The polypeptide of claim 15, wherein the polypeptide comprises SEQ ID NO:13.
- 25. (withdrawn) The polypeptide of claim 15, wherein the polypeptide comprises SEQ ID NO:14.
- 26. (original) The polypeptide of claim 15 further comprising the amino acid sequence of a polypeptide selected from the group consisting of a poly-His peptide, a FLAG peptide, a peptide linker, a leucine zipper domain, and an Fc polypeptide.

Claims 27-31 (cancelled).